

FIG. 1

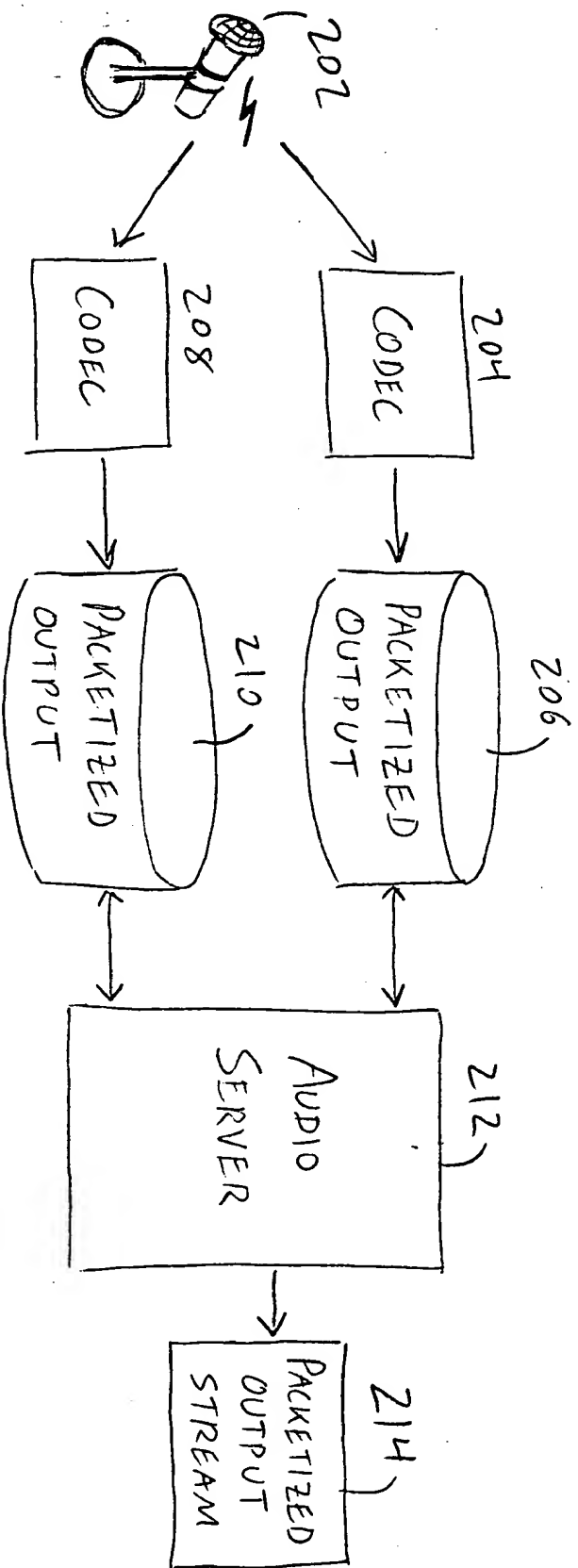


FIG. 2

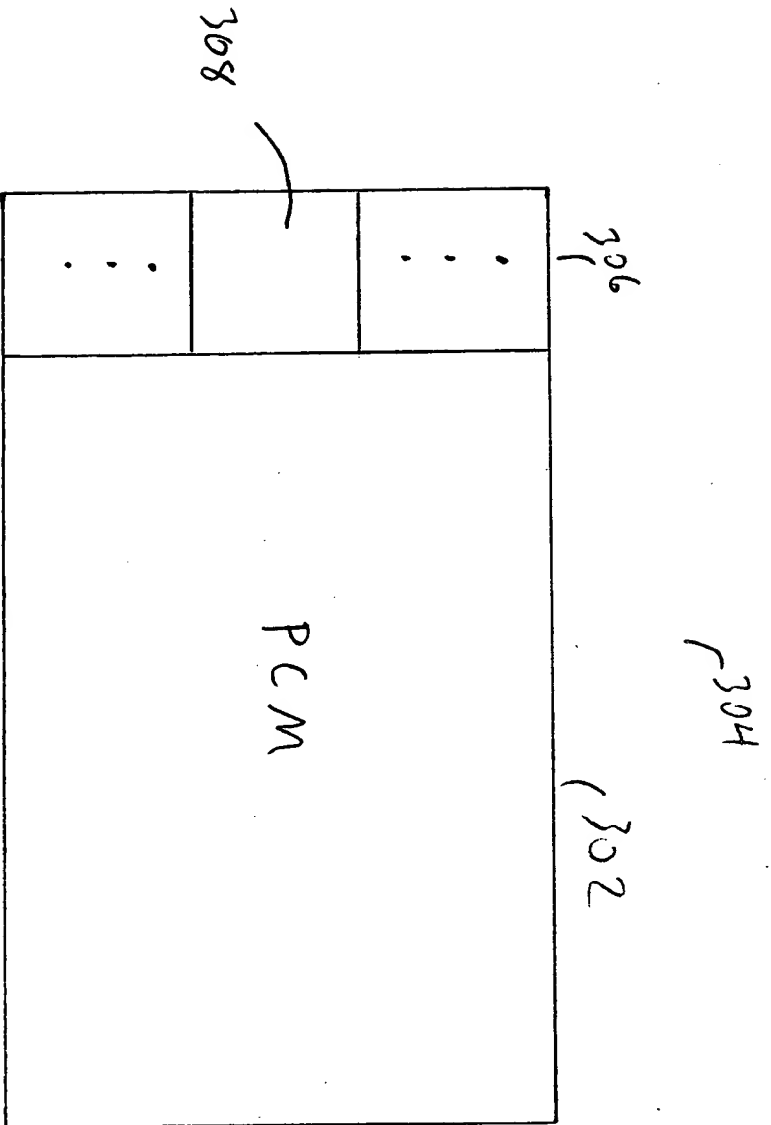


FIG. 3

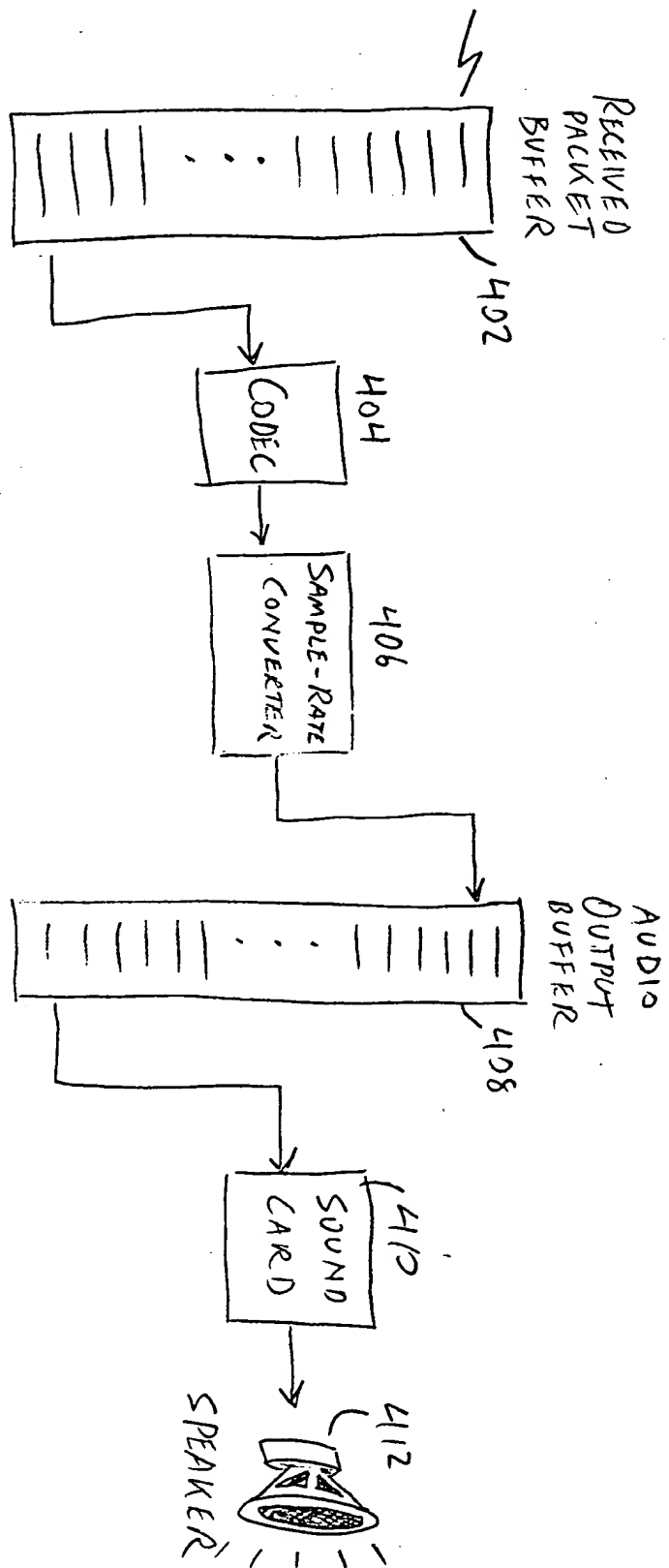


FIG. 4

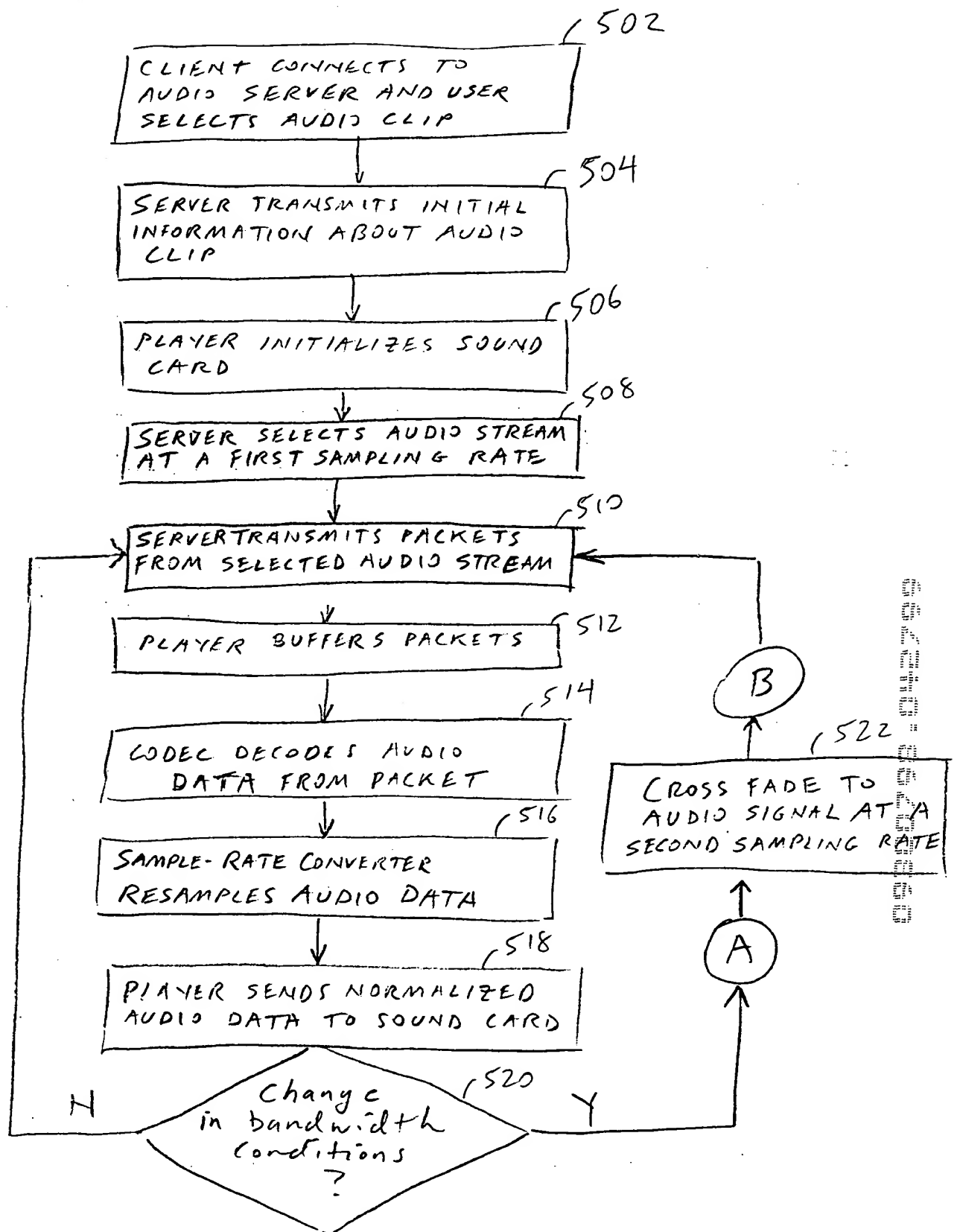


Fig. 5

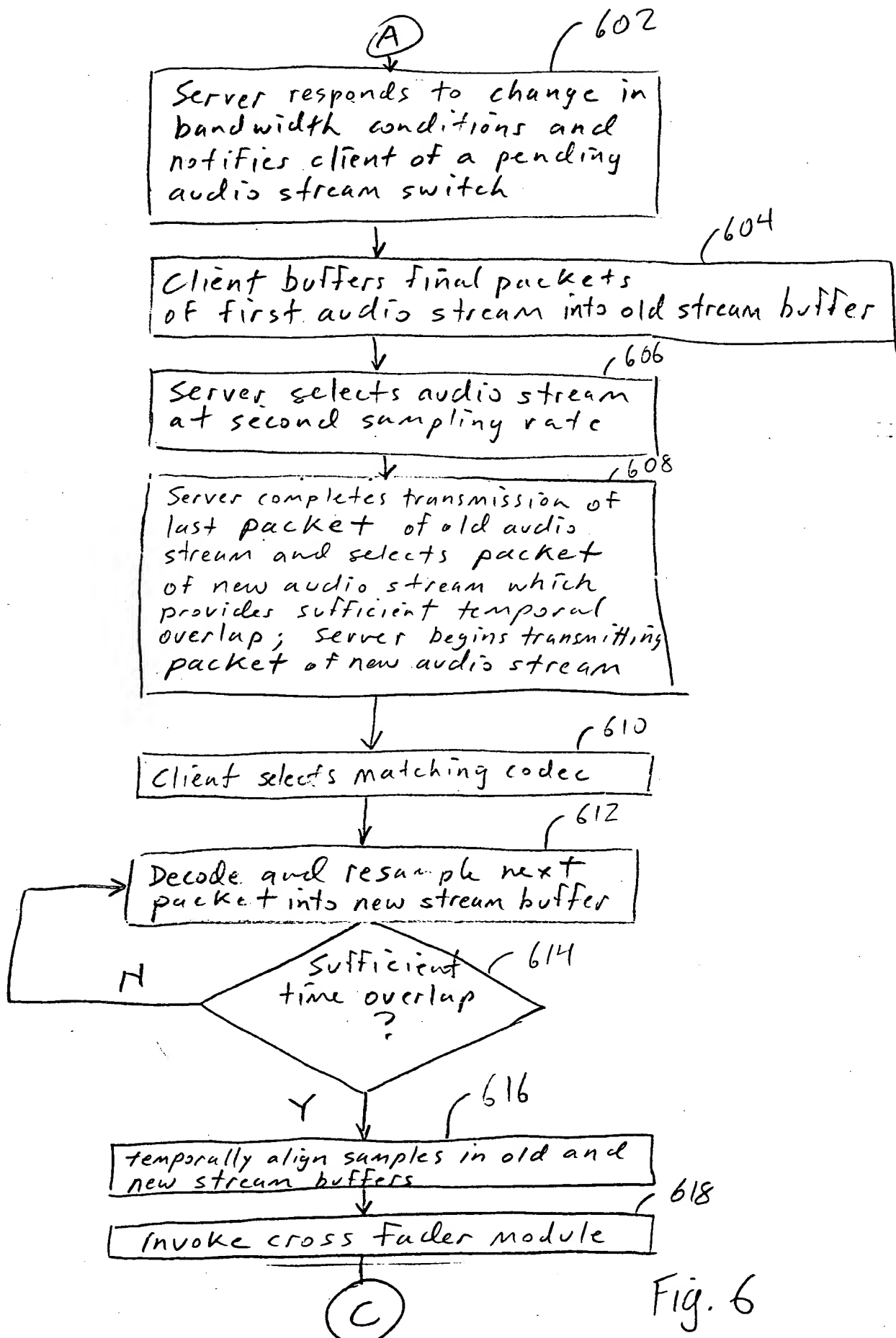


Fig. 6



RESAMPLING

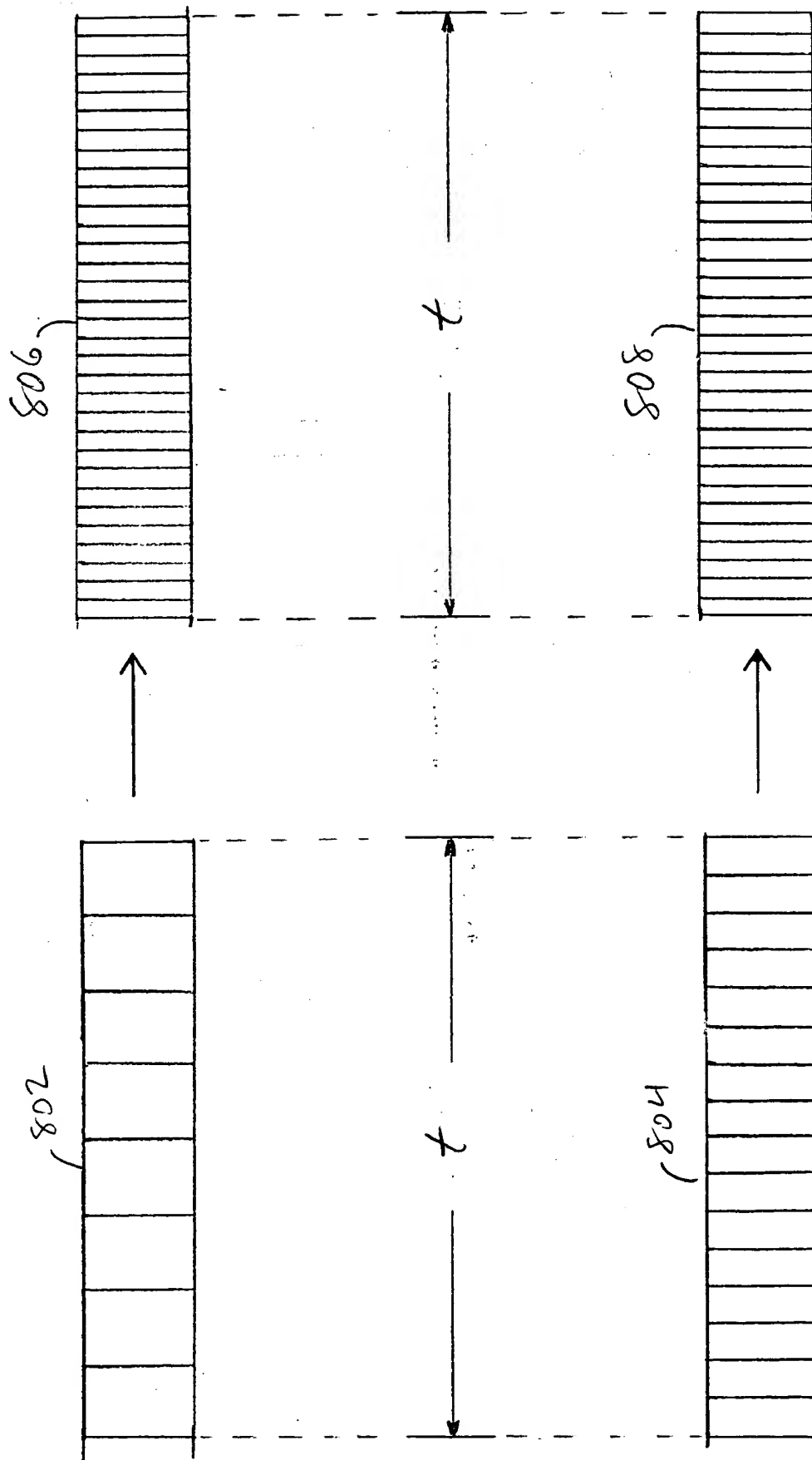


FIG. 8



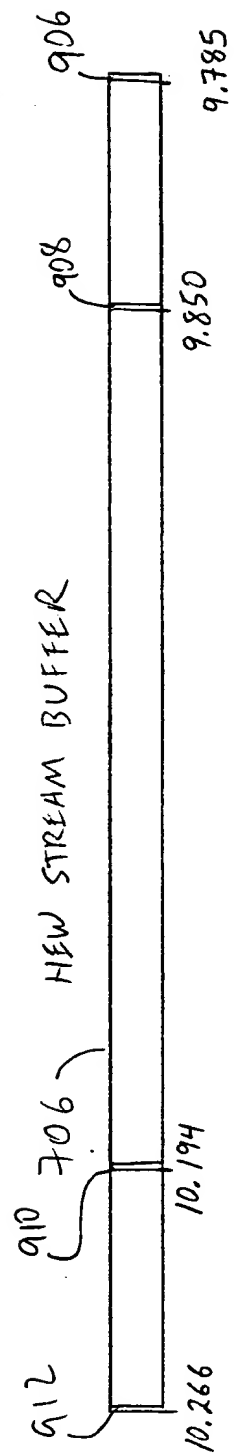
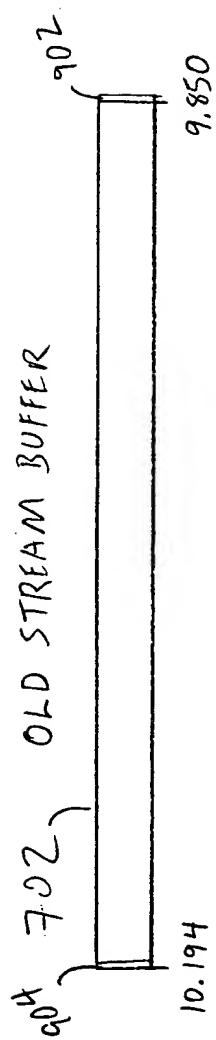


Fig. 9

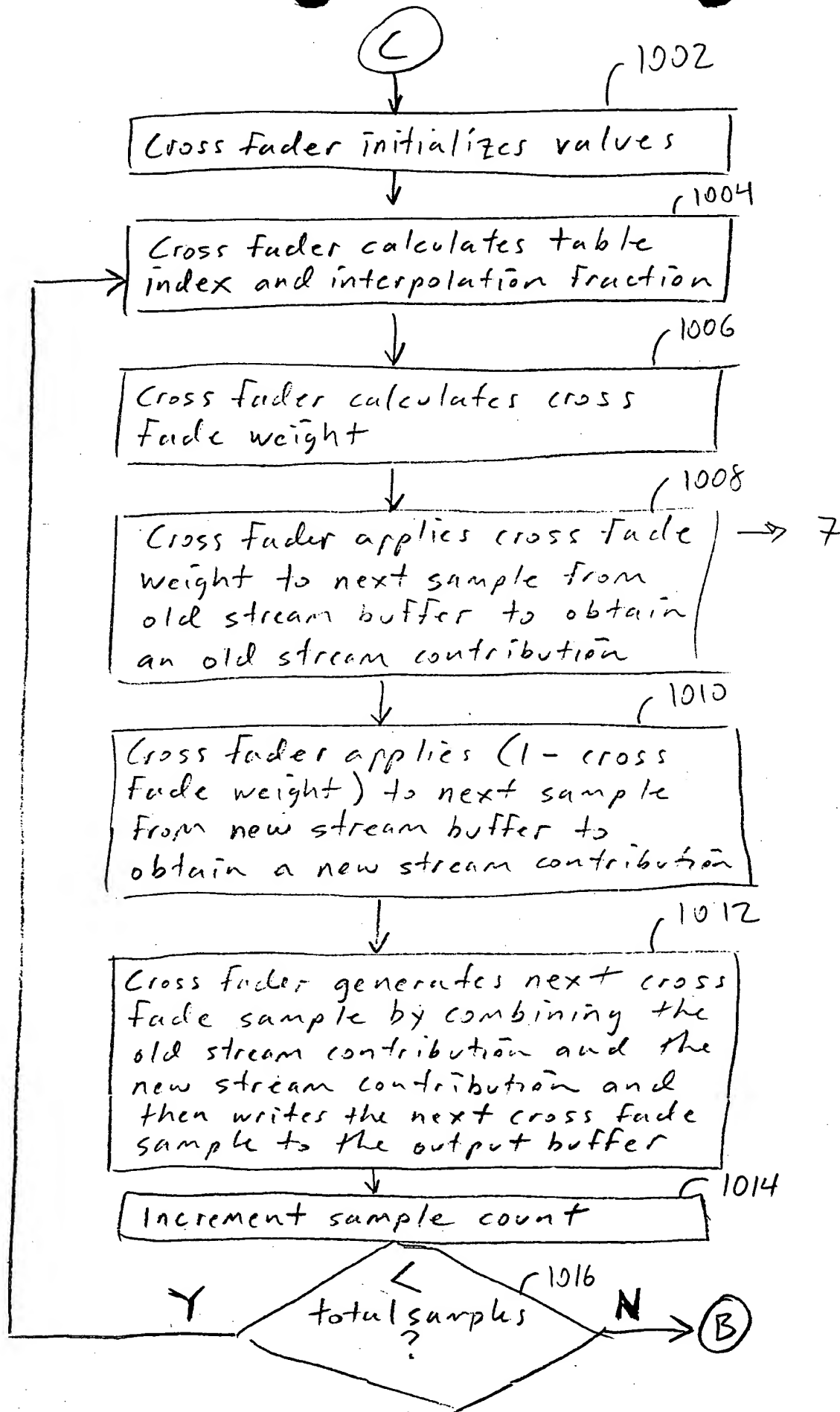


Fig. 10

FIG. 11 is a graph of the transfer function of the device of FIG. 10, showing the output voltage as a function of the input voltage. The curve is an S-shape, indicating a non-linear transfer function.

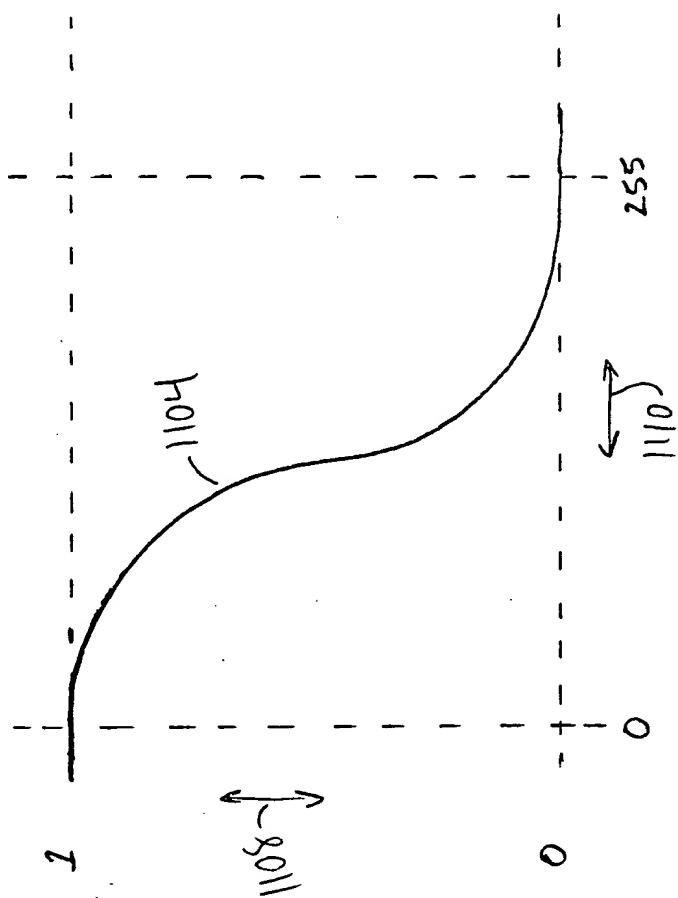


Fig. 11

